PROJECT DESCRIPTION

GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 187 (Old Georgetown Rd) and Rock Spring Drive in Montgomery County. The Wildwood Manor Shopping Center driveway on the east leg of this intersection is to be widened requiring the relocation of pedestrian equipment. The pedestrian phases across the South and East legs shall be upgraded to audible pushbuttons. A concurrent eastbound right turn phase shall be added during this modification.

MD 187 (Old Georgetown Rd) is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA six-phase, semi-actuated mode, with the MD 187 (Dld Georgetown Rd) approaches running concurrently. The Exclusive lead left turn phase for the southbound approach of concurrently. The Exclusive lead left turn phase for the Southbound approach of MD 187 (Did Georgetown Rd) shall continue to operate. The Exclusive lag left turn phase for the northbound approach of MD 187 (Did Georgetown Rd) shall continue to operate. The pedestrian phase on recall across Wildwood Manor Shopping Driveway shall now be a Countdown pedestrian phase with audible pushbuttons on recall. The pedestrian phase to the south leg of MD 187 (Did Georgetown Rd) shall now be a Countdown pedestrian phase with audible pushbutton actuation. shall now be a Countdown pedestrian phase with audible pushbutton actuation. The Countdown pedestrian phase across Rock Spring Drive on recall shall remain in operation. Farside sampling stations via video camera detection shall remain in operation for all both legs of MD 187 (Old Georgetown Rd) and the Rock Spring Drive leg of the intersection. The Rock Spring Drive / Wildwood Manor Shapping Drive approaches shall continue to the Good Colds Manor Shopping Driveway approaches shall continue to run as a side street split phase. A new eastbound right turn concurrent phase on Rock Spring Drive
- 2. The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- 3. Montgomery County Signal Shop shall install APS control unit into controller cabinet. The APS push buttons should be delivered to Keith Lord at the Montgomery County Technical Center for programming at least two weeks prior to the beginning of work.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy—two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved. immediately so that the conflict may be resolved.
- 4. APS will function as follows:
- TO CROSS OLD GEORGETOWN ROAD

Phone: (301) 513-7350

- When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message Wait to cross Old Georgetown at Rock Spring and Shopping Center .
- When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

TO CROSS SHOPPING CENTER DRIVEWAY

- a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message "Wait to cross Shopping Center at Old Georgetown.
- When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

The contacts for Montgomery County and SHA are as follows:

	MAR COUNTY OF TO MAKE A STATE 2		
Į.	ls. Anyesha Mookherjee	Mr. Richard L. Daff. Sr.	Mr. Mike Kinney
	Ssistant District Engineer – Traffic	Chief. Traffic Operations Division	Mont. County Traffic
	Hone: (301) 513-7318	Phone: (410) 787-7630	240-777-8760
1	Mr. Vernon Stinnett	Mr. Keith Lord	Mr. Kamal Hamud
	Assistant District Engineer – Maintenance	Signal Shop (Mont Co.)	Mont. County TMC Cent
	Phone: (301) 513–7304	301-674-8965	240-777-8761
	Wr. Victor Grafton Assistant District Engineer - Utility Phone: (301) 513-7350	Mr. Sonny Bailey Manager, Sign Shop Operations 410-787-7670	

A. EQUIPME	NT TO BE FURNISHED AND/OR INSTALLED BY THE	CONTRACTOR
SPEC. NUMBER	DESCRIPTION	QUANTITY
814	16", one-way, LED (DW, W) symbolic pedestrian signal head with adjustable bracket for pole mounting and cutaway visors. (Countdown Display)	2 EA
814	12", one-way, four-section (R,Y,G,GA) LED traffic signal head modules.	8 EA
814	12", one-way, five-section (R,Y,YA,G,GA) LED traffic signal head with adjustable bracket for mast arm mounting and tunnel visors.	1 EA
205	Test pit excavation.	5 C.Y.
206	Remove concrete sidewalk	380 S.F.
610	4" concrete sidewalk.	400 S.F.
	Standard type A combination curb and gutter 12" gutter pan 8" depth.	85 L.F.
	Remove curb and gutter.	50 L.F.
801	Furnish and install concrete for signal foundation.	2 C.Y.
556	12" white heat applied permanent preformed thermoplastic pavement marking	835 L.F. 80 L.F.
556	24" white heat applied permanent preformed thermoplastic pavement marking	
8:11	Furnish and install electrical handhole.	1 EA 380 L.F.
	Remove existing pavement markings	
843	Ground mounted sheet aluminum signs to consist of:	4 S.F. 2 EA
	Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS OLD GEORGETOWN RD".) Pedestrian education R10-3(1)	2 EA
	Pedestrian education sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS SHOPPING CENTER DRIVEWAY".)	
84-3	Overhead mounted sheet aluminum sign consisting of:	18.•5 S.•F∙
	R3-5R "RIGHT TURN ONLY" sign. (30" x 36").	1 EA
	$51-1$ "SCHOOL" sign: (36" \times 36") ground mounted.	1 EA
	W16-7P(L) "arrow (symbolic)" diagonal sign, (15" x 21") pole mounted.	1 EA
805	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit – trenched	65 L.F∙
805	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit – trenched	25 L.∓•
8.1.0	Furnish and install 2-conductor electricable (No. 14 A.W.G.).	ical 580 L.F.
840	Furnish and install 5-conductor electroable (No. 14 A.W.G.).	
810	Furnish and install 7-conductor electroable (No. 14 A.W.G.).	
8:1·O	Furnish and install ground rod $-34'' \times 10'$.	1 EA
8:1:0	Furnish and install No. 6 AWG stranded bare copper ground wire.	60 L.F Lump Su⊓
	Pull back and reoute existing signal equipment cable.	
	Relocate signal head.	1 EA estal 2 EA
	Furnish and install 10' breakaway pede pole with transformer base:	
	Furnish and install 5' breakaway peder pole with transformer base.	
	Remove and dispose of existing signal equipment and material.	
•	Detectable warning system	50 SF

Audible/tactile pedestrian pushbutton station & signs.

marking arrow. (right)

Furnish and install heat applied permanent preformed thermoplastic pavement

4 EA

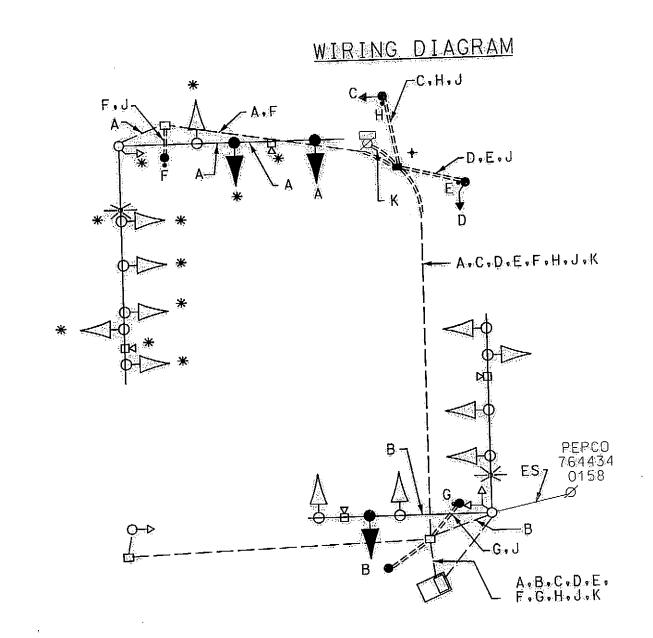
1 E.A

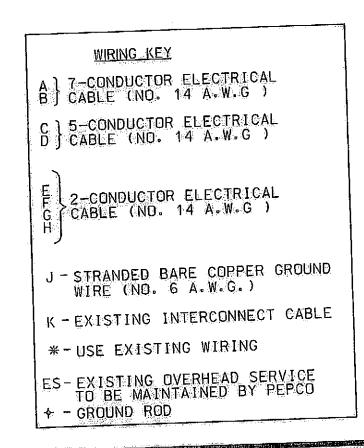
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PHASE CHART

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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2 & 5 CHANGE	← R	∢ R-	4 −R−	- <u>Y</u>			4 -R-					R/-G- ▶		R	R	DW	W	W	DW	DW	DW	 ⊘
PHASE 2 & 6	4 -G	4 -G−	4 -G	G	G	4 -R-	4 R-	R	R	R					R		FL/DW	FL/nw	DW	DW	DW	◆
PED CLEAR / COUNTDOWN	4 −G−	4 -G−	4 −G−	G	G	← R-	4 R-	R	R	R	R	R/-G-▶	R	R					DW	DW	DW	, -
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2 & 6 CHANGE	<u> </u>				 R	4 -R-	—-R	R	R	R	R	R	G 4–G−	G 4-G	G	DW	DW	DW	DW	DW	DW	
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3 CHANGE	4 -R−	4 −R~-	4 -R-	R		4 -R−	 					G	R		 R	DW	DW	DW	DW	DW	DW	<u> </u>
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PED CLEAR / COUNTDOWN	4 -R-				 			R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	4
4 ALT CHANGE	4 -R-	-	- R-	R 	R	← R-	-	 	-		R	R	R	R	R	W	DW	DW	W	DW	DW	
PHASE 1 & 5	, —R-	-	- R	R	R	4 G−	← G−	G	G	R 	 	 	 	<u> </u>	R			DW	W	DW	D-W	
1 & 5 CHANGE	4 R-	- ⊀ -R-	- ←R−	R	R	← Y-		G	G	R	R	R 	R	R	 -		-				 	
FLASHING OPERATION	FL/	R-FL/	FL/ 4 R	FL/Y	FL/	FL/	FL/ *R	FL/Y	/FL/Y	FL/R	 FL/F 	FL/R	FL/R	FL/R	FL/F	DARK	DARK	DARK	DARK	DARK	DARK	1

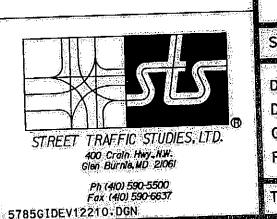






STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

MD 187 (OLD GEORGETOWN RD) AND ROCK SPRING DRIVE OAKMONT, MARYLAND



GENERAL INFORMATION SHEET SCALE NONE DATE 3/30/10 CONTRACT NO. BW996M82 MONTGOMERY DESIGNED BY R.R.Z. LOGMILE 15018703.51 TIMS NO. _ K183 CHECKED BY TOD NO. F.A.P. NO. SHEET NO. TS NO. 4049B DRAWING NO. 2 OF 2

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